PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORI	TY .			
То:			PCT	
100011		PCI		
22/F, Great Eagle Centre, 23	Harbour	WRITTEN OPI	NION OF THE INTERNATIONAL	
Road, Wanchai, HONG KONG,	P.R. China	SEARCHING AUTHORITY		
CHINA PATENT AGENT(H.	K.) LTD	,		
WANGzhongzhong			PCT Rule 43 bis.1)	
		Date of mailing	- 0 - 0 1 0 0 0 S.	
		(day/modsfit)ear))()()	7 (2 5 · 0 1 · 2 0 0 7)	
Applicant's or agent's file reference	•	FOR FURTHER ACTION		
FPEL06150022		see paragraph 2 below		
International application No.	_	date (day/month/year)	Priority date (day/month/year)	
PCT/CN2006/000579	31.Mar 200	6 (31.03.2006)	·	
International Patent Classification (IPC) or b	oth national classifica	tion and IPC		
	G06F 3/03	3 (2006.01) i		
Applicant				
	INTEL COR	PORATION et al		
This opinion contains indications relations	ng to the following it:			
		ems:		
Box No. I Basis of the opinic Box No.II Priority	'n			
	t of opinion with rega	ard to novelty, inventive	step and industrial applicability	
Box No. IV Lack of unity of in		,	one and the second	
		a)(i)with regard to nove	lty, inventive step or industrial applicability;	
	nations supporting su			
Box No.VI Certain documents cited				
Box No. VII Certain defects in the international application				
Box No.VIII Certain observations on the international application				
2. FURTHER ACTION				
International Preliminary Examining A	uthority ("IPEA") ex EA and the chosen IP	xcept that this does no EA has notified the Inte	considered to be a written opinion of the ot apply where the applicant chooses an mational Bureau under Rule 66.1 bis(b) that	
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IPEA a written reply together, where app	propriate, with amend	lments, before the expir	A, the applicant is invited to submit to the ation of 3 months from the date of mailing	
of Form PCT/ISA/220 or before the expir	ration of 22 months fr	om the priority date, wh	ichever expires later.	
For further options, see Form PCT/ISA/2	20.			
3. For further details, see notes to Form PCT	/ISA/220.			
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Name and mailing address of the ISA/CN	Date of completion	of this opinion	Authorized officer	
The State Intellectual Property Office, the	= 200 01 compression	46	是降	
P.R.China 6 Xitucheng Rd., Jimen Bridge,	24.Dec 2006	6 (24.12.2006)	CHEN, Ruyan	
Haidian District, Beijing, China 100088			[FY 75]	
Facsimile No. 86-10-62019451		, .	Telephone No. (86-10) 62085025	

Form PCT/ISA/237(cover sheet)(April 2005)

International application No. PCT/CN2006/000579

Box	No.	I	Basis of the opin	nion					
1.	With	h reg	ard to the langua	ge, this opinio	n has been establish	ed on the basis	of:		
		a t	ranslation of the	international	language in which application intonational search (Ru			which is the la	nguage of a translation
2.	With	h reg entio	ard to any nucleon, this opinion ha	t ide and/or a s been establis	mino acid sequenc shed on the basis of	e disclosed in the	e international a	application and n	ecessary to the claimed
	а.	type	of material a sequence listin table(s) related t		e listing				
	b.	for	nat of material on paper in electronic for	m		·			
	c.	tim	filed together w	international ith the internat	application as filed tional application in Authority for the p				
3.		furn	ished, the requir	ed statements	nan one version or one that the information of the application	on in the subse	quent or addit	ional copies is	hereto has been filed or identical to that in the
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4.	Add	itior	al comments:						
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Reasoned statement under Pule 43his 1(a)(i) with regard to nevelt:

International application No. PCT/CN2006/000579

citations and explanation Statement:	ns supporting	such statement	
Novelty (N)	Claims	1-20	YES
	Claims	none	NO NO
Inventive step (IS)	Claims	1-20	YES
:	Claims	none	NO NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	none	NO NO

2. Citations and explanations

Dou No V

- (1) Reference is made to the following documents: D1:CN 1595348 A 16.Mar 2005 D2:US 6703570 B1 9. Mar 2004
- (2) The present invention discloses an apparatus, which comprises a switching mechanism to switch an input line between a first input voltage and a second input voltage, a pulse generator coupled to the switching mechanism to generate an electronic pulse train at a high frequency in response to the first input voltage and an electronic pulse train at a low frequency in response to the second input voltage, an oscillator circuit coupled to the pulse generator to receive the electronic pulse train, and an ultrasonic transmitter coupled to the oscillator circuit to produce an ultrasonic signal at a frequency that is a function of a frequency of the electronic pulse train.
- (3) D1 discloses a remote control and radio position finding electrical white board system. The invention is composed of the strokes sensor 11, the signal pencil 15, the board eraser 16, the common writing white board 18 and the remote controller 17. The remote controller employs the general radio remote controller with at least four keys, together with the modulation module and the aerial, which transmits the remote control information. With the software interface of operating the PC remotely and wirelessly, the use can use conveniently. The influence of the external noise and the supersonic echo is eliminated, by adding the narrow pulse filter and by controlling the working period of the pulse shaping circuit. By this means, the volume of the signal pencil can be decreased.

D2 discloses a digital pen that has a writing tip, the digital pen includes an ultrasonic (US) transducer on a pen body that generates frames of US pulses toward areceiver base in response to an infrared (IR) synchronizing signal from the base. The first pulse of a frame is adjusted by a modulo of the US period tau when the time of arrival (TOA) of the first pulse varies from an expected TOA by more than e-half tau. The TOAs of successive i>pulses in the frame, which are one wavelength apart from each other, are adjusted forward in time by subtracting from each pulse TOA (i-1)tau, and then several of the adjusted pulse TOAs in a single frame are averaged together to determine a frame TOA. The frame TOAs from plural receivers on the base are then triangulated to determine a pen position for that frame, with the pen positions being input to a handwriting recognition module.

(4) It is obvious that the technical features which relate to "switching mechanism to switch an input line between a first input voltage and a second input voltage" and/or "an electronic pulse train at a high frequency in response to the first input voltage and an electronic pulse train at a low frequency in response to the second input voltage" in claims 1,6 and 14 aren't disclosed by D1 or D2, and further the technical solutions claimed are not obvious to a person skilled in the art on the basis of D1,D2 or their combination. Thus, claims 1,6 and 14 have novelty under PCT Article 33(2), and have inventive step under PCT Article 33(3).

Claims 2-5 are dependent on claim 1, claims 7-13 are dependent on claim 6 and claims 15-20 are dependent on claim 14, therefore, claims 2-5,7-13,15-20 also meet the requirements of the PCT with respect to novelty and inventive step.

Claims 1-20 have industrial applicability under PCT Article 33(4), because the technical solutions claimed can be made or used in the industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	ITY					
To:			PCT			
100011			PCI			
22/F, Great Eagle Centre, 23	Harbour	WRITTEN OP	INION OF THE INTERNATIONAL			
Road, Wanchai, HONG KONG,	P.R. China		RCHING AUTHORITY			
CHINA PATENT AGENT(H.	K.) LTD		·			
WANG,zhongzhong		. ((PCT Rule 43 <i>bis</i> .1)			
		Date of mailing	07 (2 5 · 0 1 · 2 0 0 T)			
Applicant's or agent's file reference		FOR FURTHER A	CTION			
FPEL06150022		·	see paragraph 2 below			
International application No.	International filing of	late (day/month/year)	Priority date (day/month/year)			
PCT/CN2006/000579	31.Mar 2006	5 (31.03.2006)				
International Patent Classification (IPC) or b	oth national classificat	ion and IPC				
	G06F 3/03	3 (2006.01) i				
Applicant						
	INTEL COR	PORATION et al				
This opinion contains indications relati	ng to the following ite	ma:				
Box No. I Basis of the opinion						
Box No.II Priority	<i>,</i> 11	•				
☐ Box No. III Non-establishmen	t of opinion with rega	rd to novelty, inventive	step and industrial applicability			
Box No. IV Lack of unity of it						
	nt under Rule 43 <i>bis</i> .1(a mations supporting suc		lty, inventive step or industrial applicability;			
Box No.VI Certain documents		ii statement				
Box No. VII Certain defects in			•			
Box No.VIII Certain observation	Box No.VIII Certain observations on the international application					
2. FURTHER ACTION						
International Preliminary Examining A	uthority ("IPEA") ex	cept that this does no	considered to be a written opinion of the ot apply where the applicant chooses an emational Bureau under Rule 66.1 bis(b) that			
written opinions of this International Sea			mational Bureau under Rule 60.1015(b) that			
IPEA a written reply together, where ap	propriate, with amend	ments, before the expir	A, the applicant is invited to submit to the ation of 3 months from the date of mailing			
of Form PCT/ISA/220 or before the expi		om the priority date, wh	inchever expires later.			
For further options, see Form PCT/ISA/2	.20.					
3. For further details, see notes to Form PCT	/ISA/220.		,			
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Name and mailing address of the ISA/CN	Date of completion of	of this opinion	Authorized officer			
The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge,	24.Dec 2006	(24.12.2006)	CHEN, Ruyan			

Telephone No. (86-10) 62085025

P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088

Facsimile No. 86-10-62019451

International application No. PCT/CN2006/000579

Bo	k No.	I	Basis of the opinion
1.	Wit	h reg	ard to the language, this opinion has been established on the basis of:
		a ti	international application in the language in which it was filed anslation of the international application into, which is the language of a translation hished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.			ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed a, this opinion has been established on the basis of:
	a.	type	of material a sequence listing table(s) related to the sequence listing
	b.	form	nat of material on paper in electronic form
	c.	time	of filing/furnishing contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search
3.		furni	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or shed, the required statements that the information in the subsequent or additional copies is identical to that in the ication as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	lition	al comments:
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International application No. PCT/CN2006/000579

. Statement:			
Novelty (N)	Claims	1-20	YES
	Claims	none	NO
Inventive step (IS)	Claims	1-20	YES
	Claims	none	NO .
Industrial applicability (IA)	Claims	1-20	YES
	Claims	none	NO

Reasoned statement under Rule 43his 1(a)(i) with regard to novelty inventive stan

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